

CLAIMS

What is claimed is:

1. A composition, comprising, a thermoplastic polymer, about 5.0 to about 10 volume percent of carbon fiber, and about 8 to about 25 volume percent of carbon black, wherein said volume percentages are based on the total volume of said composition.
2. The composition as recited in claim 1 wherein said carbon fiber is about 6.0 to about 9.0 volume percent of said composition.
3. The composition as recited in claim 1 wherein said carbon fiber is about 0.1 mm to about 6.0 mm long.
4. The composition as recited in claim 1 wherein said carbon black is about 10 to about 21 percent by volume of said composition.
5. The composition as recited in claim 1 wherein said thermoplastic polymer is at least about 40 volume percent of said composition.
- 15 6. The composition as recited in claims 1 wherein said carbon fiber is about 6.0 to about 9.0 volume percent of said composition, said carbon fiber is about 0.1 mm to about 6.0 mm long, said carbon black is about 10 to about 21 percent by volume of said composition, and said thermoplastic polymer is at least about 40 volume percent of said composition.
- 20 7. The composition as recited in claim 1 wherein said thermoplastic is selected from the group consisting of polyolefins, poly(meth)acrylates, polyesters,; polyamides, polycarbonates, poly(ether-sulfones); poly(ether-imides); polysulfides, liquid crystalline polymers, poly(ether-ether-ketones); poly(ether-ketones); fluoropolymers; poly(oxymethylene); poly(vinyl chloride); and ABS, and mixtures and blends thereof.
- 25 8. The composition as recited in claim 1 wherein said thermoplastic polymer is a liquid crystalline polymer.
9. The composition as recited in claim 1 which has a surface resistivity of about 10^4 to about 10^{13} ohms/square.
- 30 10. The composition as recited in claim 1 which has a surface resistivity of about 10^9 to about 10^{12} ohms/square.